

## **NON-SMOKELESS FLARES (FN Series)**

The FN series flare tips are used where the environmental condition allows the burning of smoke producing gases. They are also used with gases which produce either no smoke or so little that smoke suppression with steam, air or high pressure gas is not required. Examples of gas used with these tips are Hydrogen, Blast Furnace waste gas, Coke Oven gas, Ammonia, Hydrogen Sulphide and Methane.

### **ADVANTAGES**

- Heat shield/wind shield supplied as alternatives
- Unique refractory lining system
- Good flame retention
- Energy efficient & reliable pilots
- Continuous Pilot monitoring by means of thermocouple mounted inside the pilot as standard. Optional UV/IR detection available.
- Rugged design gives Prolonged tip life

### **MODE OF OPERATION**

The FN series flare tips are simple in design to allow straightforward flaring of gas not requiring specialized smoke suppression equipment.

The FN series has been designed to operate with all available pilot and ignition system, e.g. Natural Draught, Natural Draught Splitter System and Forced Draught.

### **FLAME STABILITY**

The FN series is supplied as standard with a slatted windshield to prevent flamelick and to help cool the top of the flare tip closest to the flame envelop. In order to prevent flame lift off from the tip, the FN series has unique flame retention lugs positioned at the tip exit of the flare tip.

### **REFRACTORY SYSTEM**

The unique refractory lining system is secured to tip by heat resistant steel bull horn sprags. Many thousands of fine stainless steel needles are mixed thoroughly with the refractory to reinforce the material evenly over its full depth without producing expansion/contraction shear planes. This refractory installation procedure has been developed and proven over many years to give the longest possible operating life, even in the most arduous conditions.

